

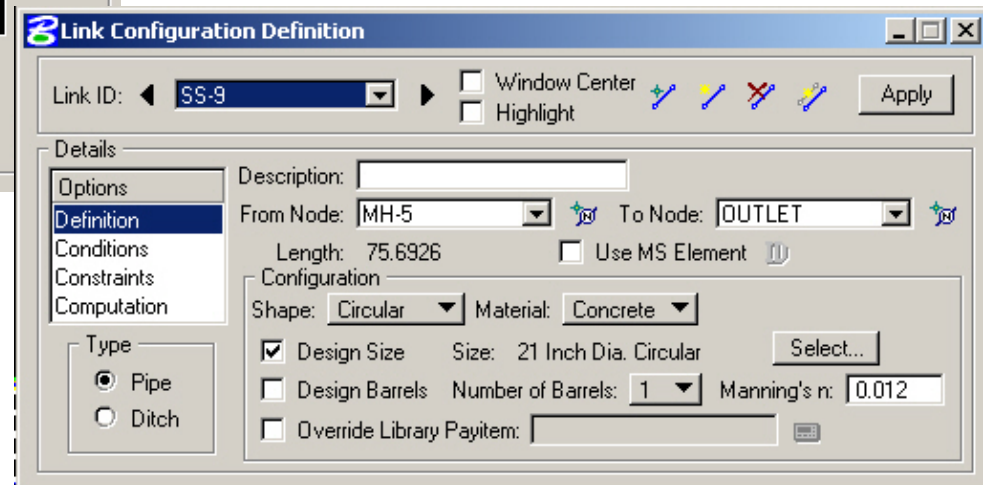
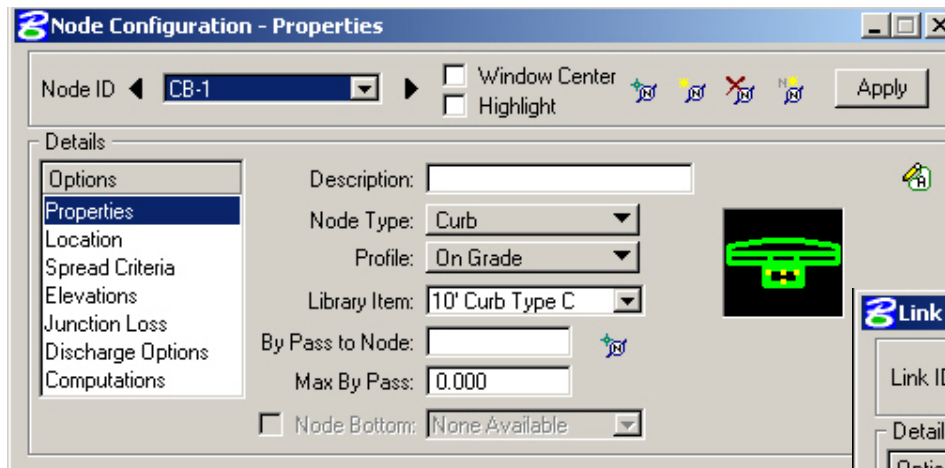


Designing with Geopak Drainage

Alexander Mabrich, PE, Msc

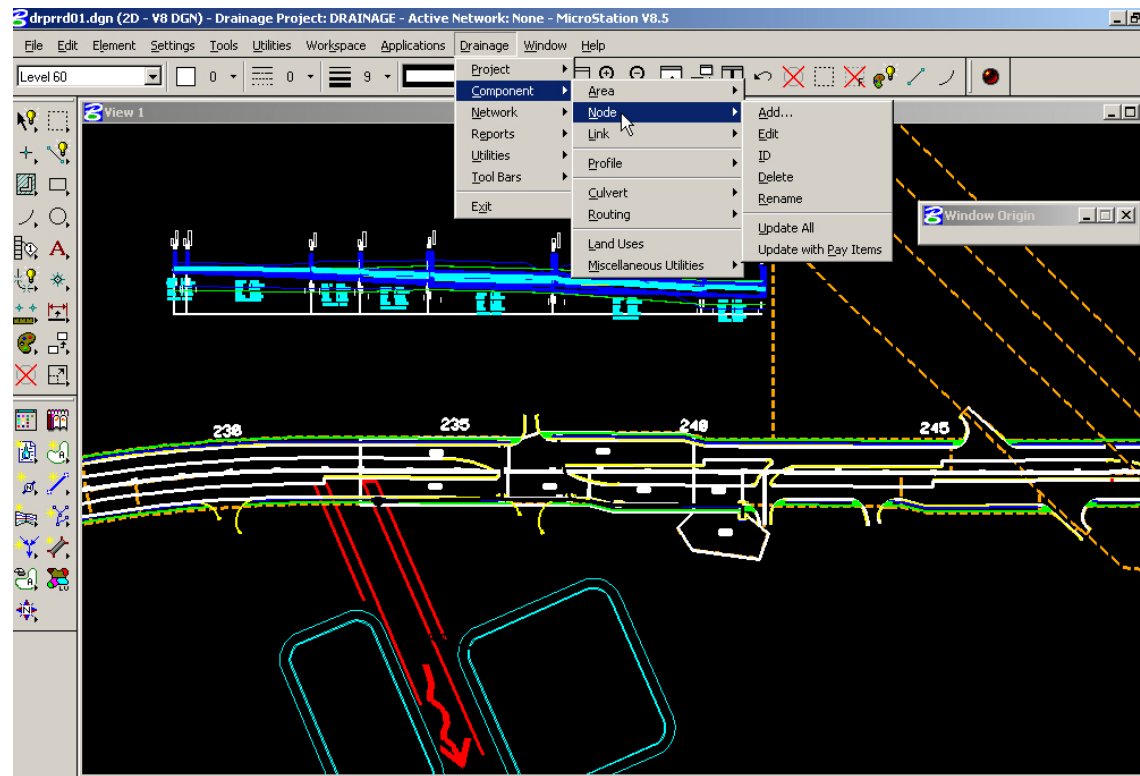
Designing with Geopak Drainage

Improved Interface



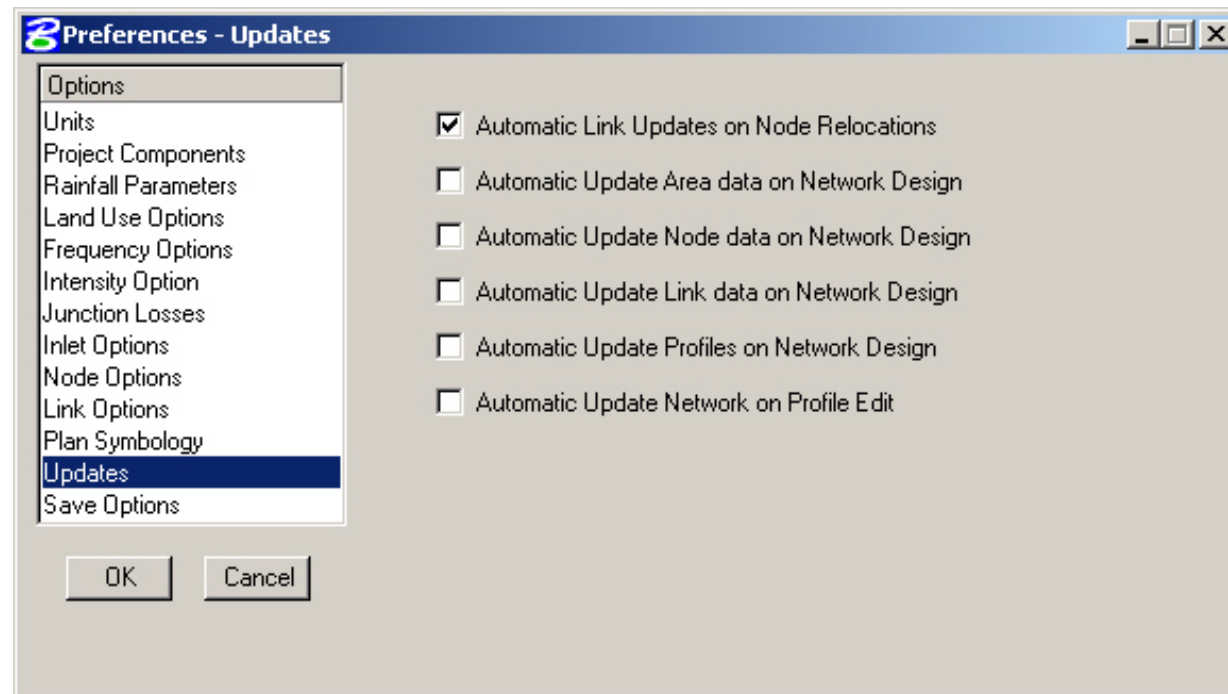
Designing with Geopak Drainage

Consolidated Dialogs



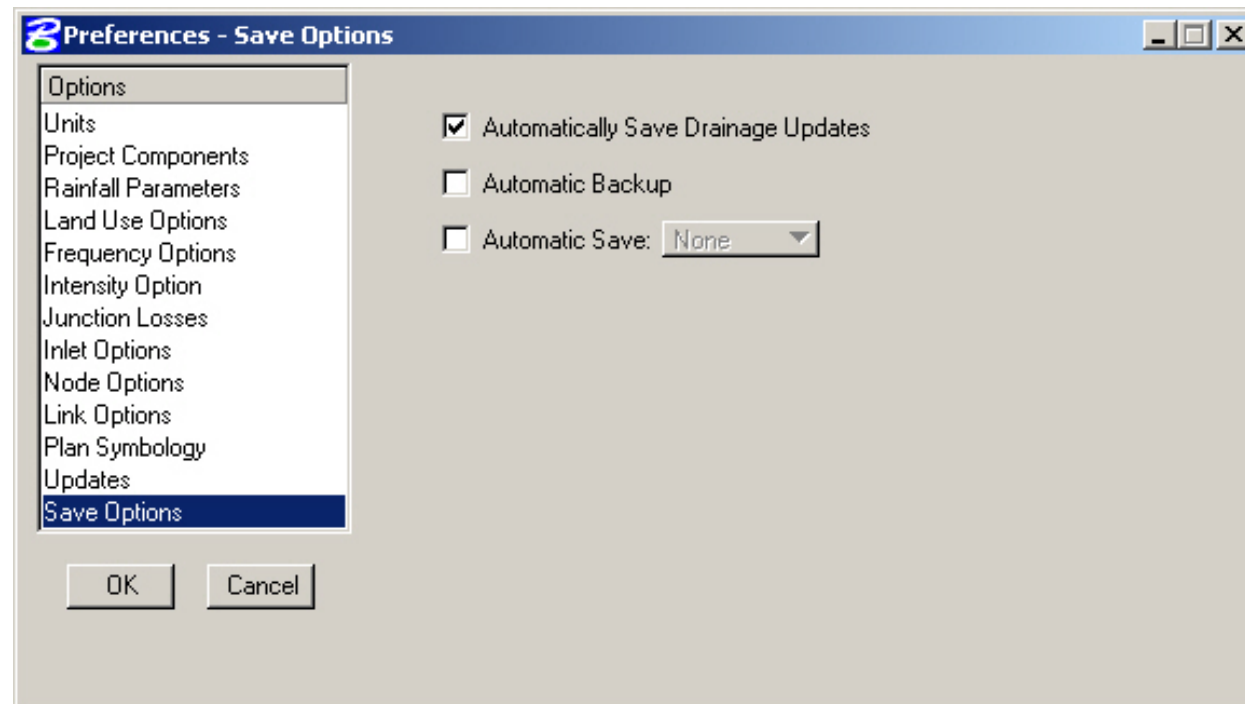
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Project Preferences: Update Options



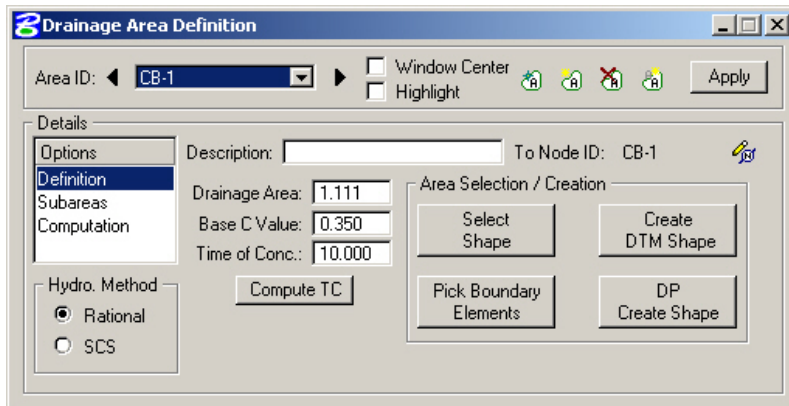
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Save Options
















Designing with Geopak Drainage

New Area, Node, and Link Dialogs



Drainage Area Definition

Area ID: ☐ Window Center ☐ Highlight             


Details

Options

Definition

Subareas

Computation



Description: To Node ID: 



Drainage Area:

Base C Value:

Time of Conc.:

Area Selection / Creation


Select Shape  Create DTM Shape 

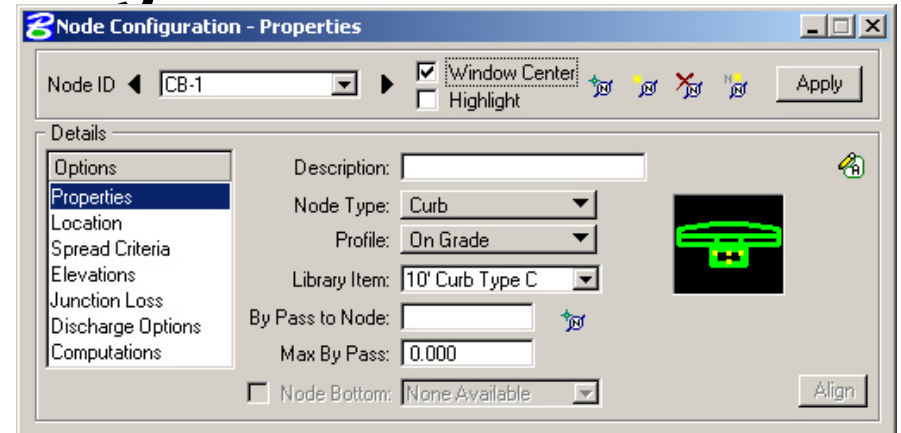
Pick Boundary Elements  DP Create Shape 

Hydro. Method














☒ Rational

☐ SCS

Compute TC 



Node Configuration - Properties

Node ID: ☒ Window Center ☐ Highlight             

Details

Options

Properties

Location

Spread Criteria

Elevations

Junction Loss

Discharge Options


Computations

Description:

Node Type:


Profile:

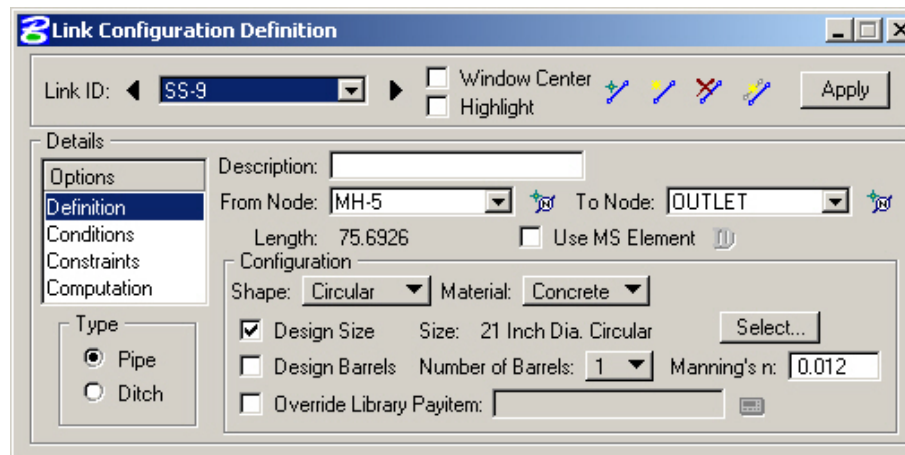
Library Item:

By Pass to Node: 














Max By Pass:

☐ Node Bottom:

Align 



Link Configuration Definition

Link ID: ☐ Window Center ☐ Highlight             

Details

Options



Definition


Conditions

Constraints

Computation

Description:

From Node:  To Node: 

Length: ☐ Use MS Element 


Configuration

Shape: Material:

Type

☒ Pipe

☐ Ditch

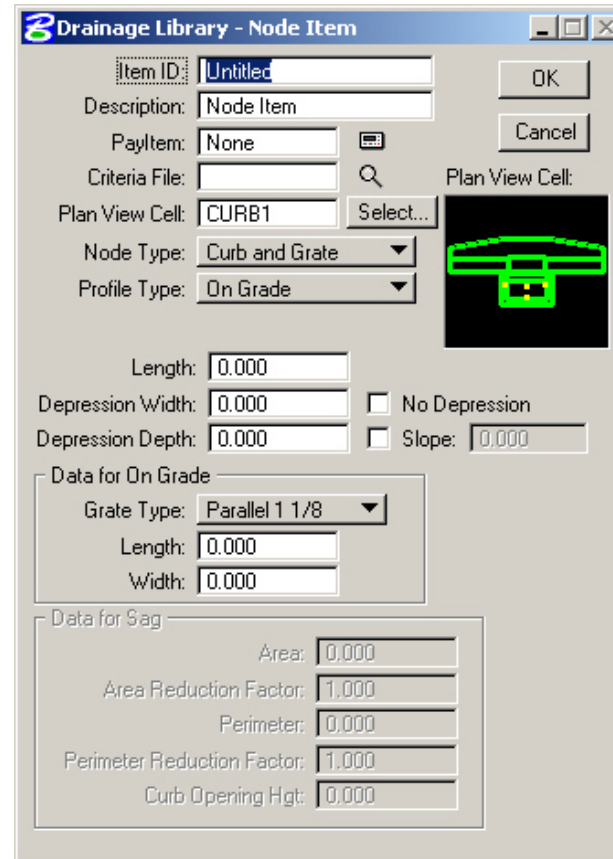
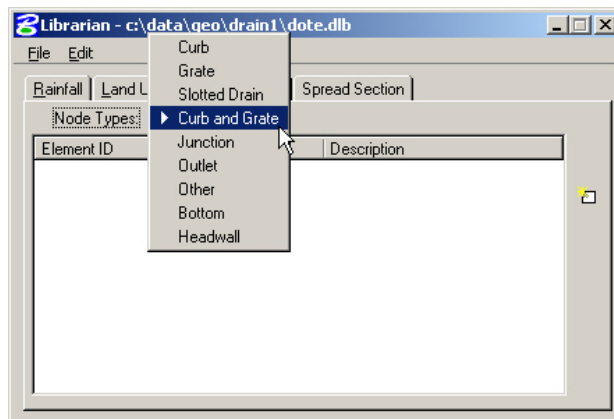
☒ Design Size Size: 

☐ Design Barrels Number of Barrels: Manning's n:

☐ Override Library Payitem:

Designing with Geopak Drainage

Drainage Library : Combination Inlets

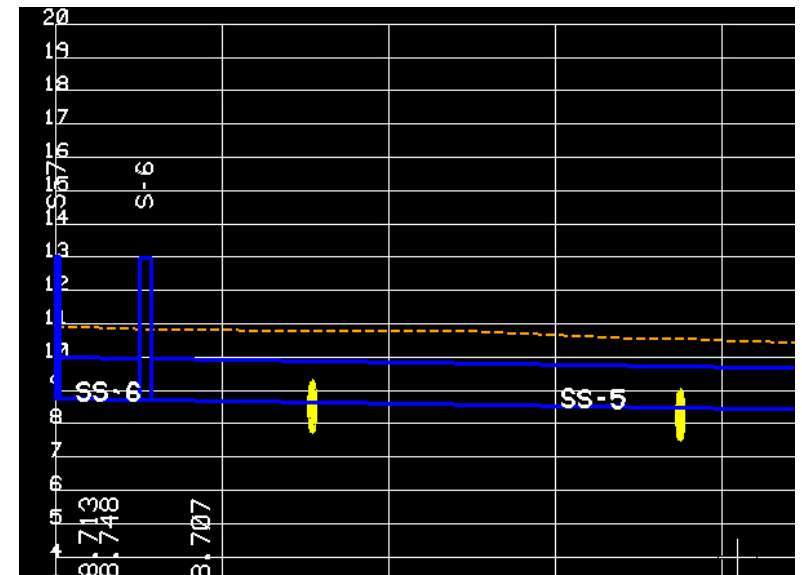
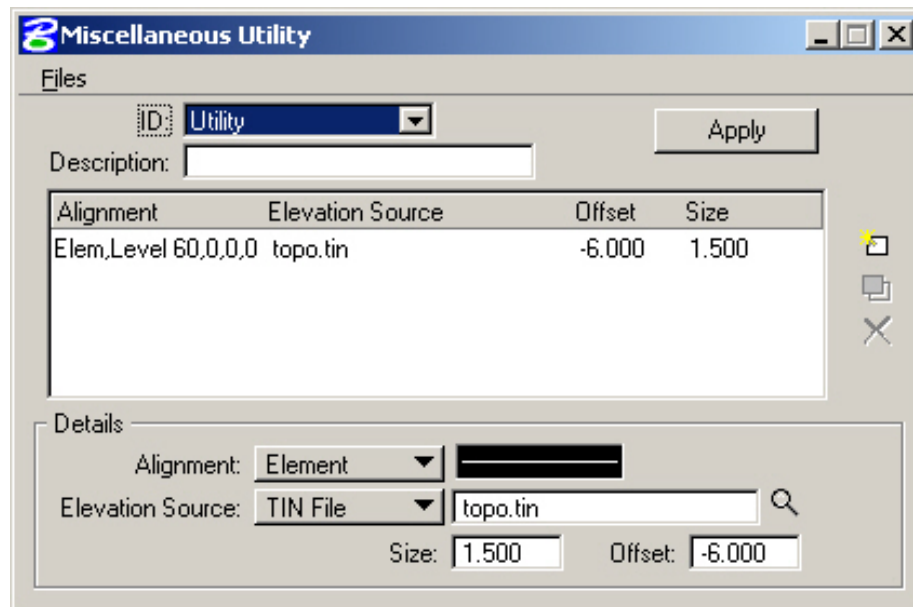
The 'Drainage Library - Node Item' dialog box is shown. It contains the following fields and options:

- Item ID: Untitled
- Description: Node Item
- PayItem: None
- Criteria File: (empty)
- Plan View Cell: CURB1
- Node Type: Curb and Grate
- Profile Type: On Grade
- Length: 0.000
- Depression Width: 0.000
- Depression Depth: 0.000
- No Depression: ☐
- Slope: 0.000
- Data for On Grade:
 - Grate Type: Parallel 1 1/8
 - Length: 0.000
 - Width: 0.000
- Data for Sag:
 - Area: 0.000
 - Area Reduction Factor: 1.000
 - Perimeter: 0.000
 - Perimeter Reduction Factor: 1.000
 - Curb Opening Hgt: 0.000

A 'Plan View Cell' preview image is shown on the right, displaying a green curb and grate symbol on a black background.

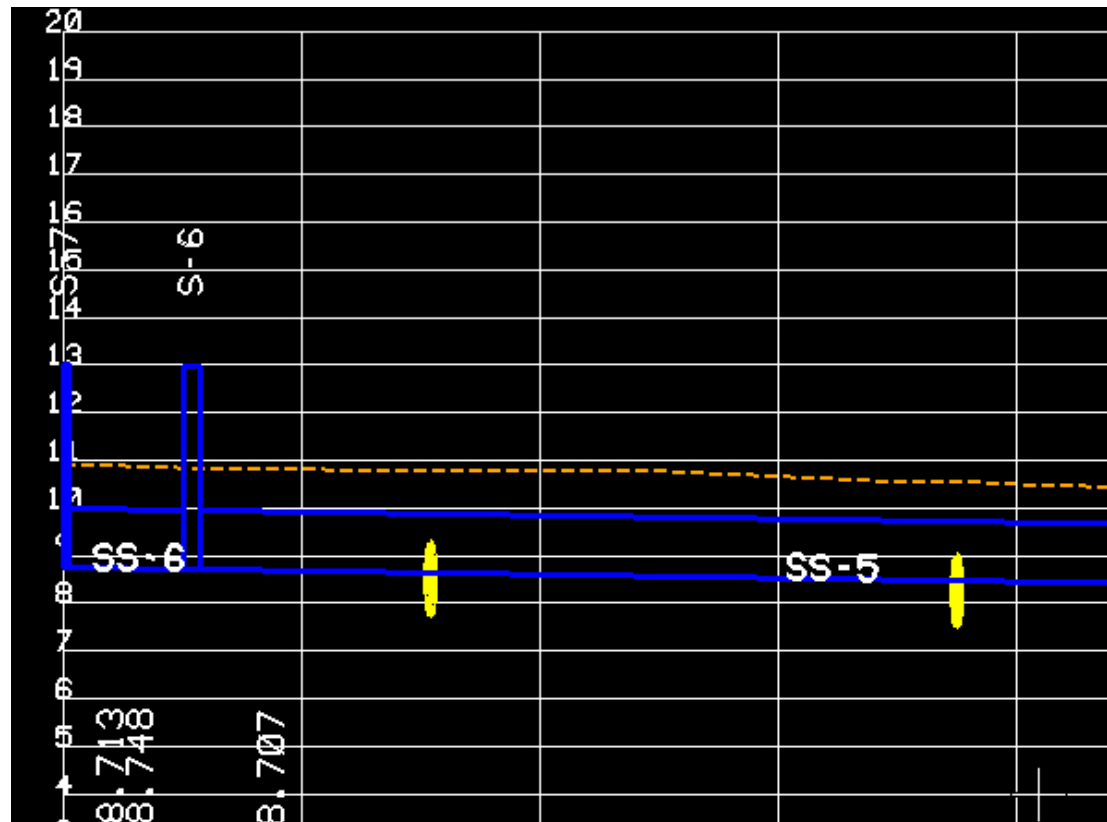
Designing with Geopak Drainage

Miscellaneous Utilities: Utility Conflicts



Designing with Geopak Drainage

Utility Conflicts

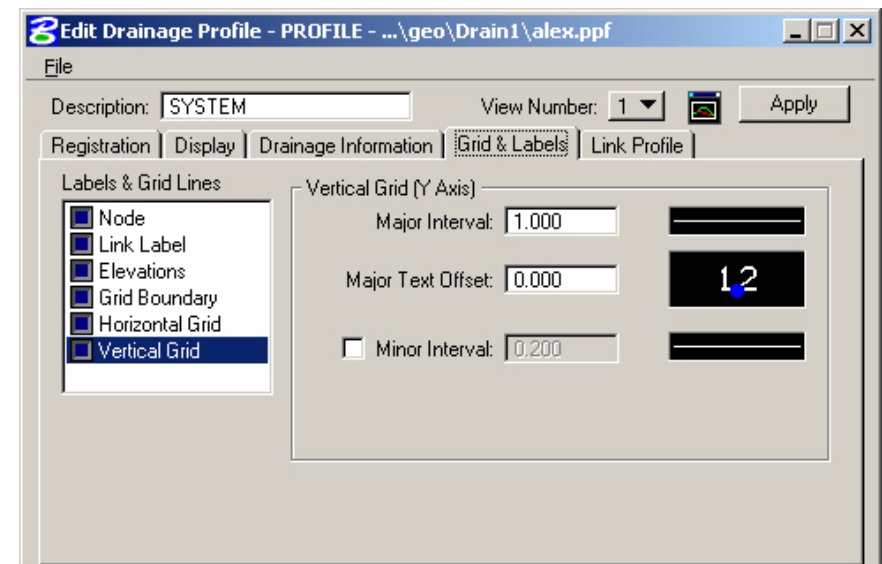
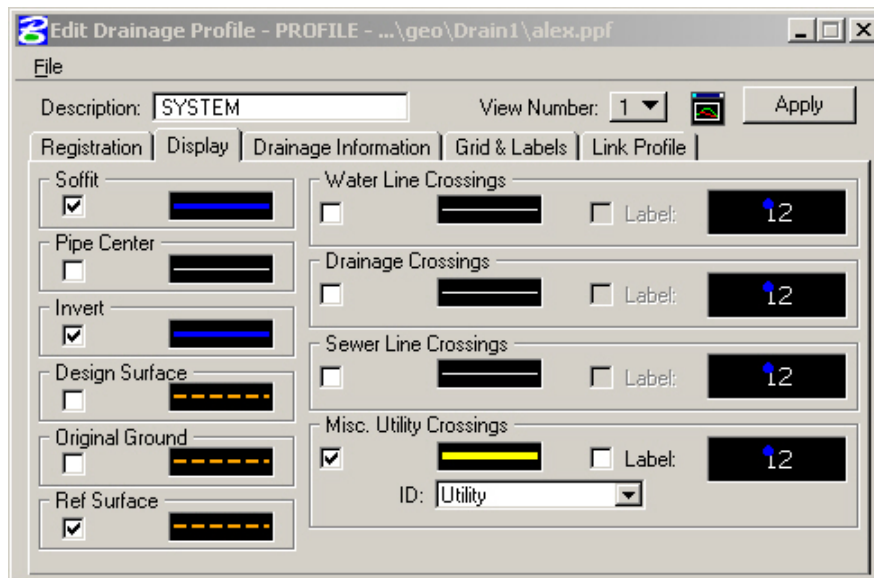


Designing with Geopak Drainage

New Profile Tool

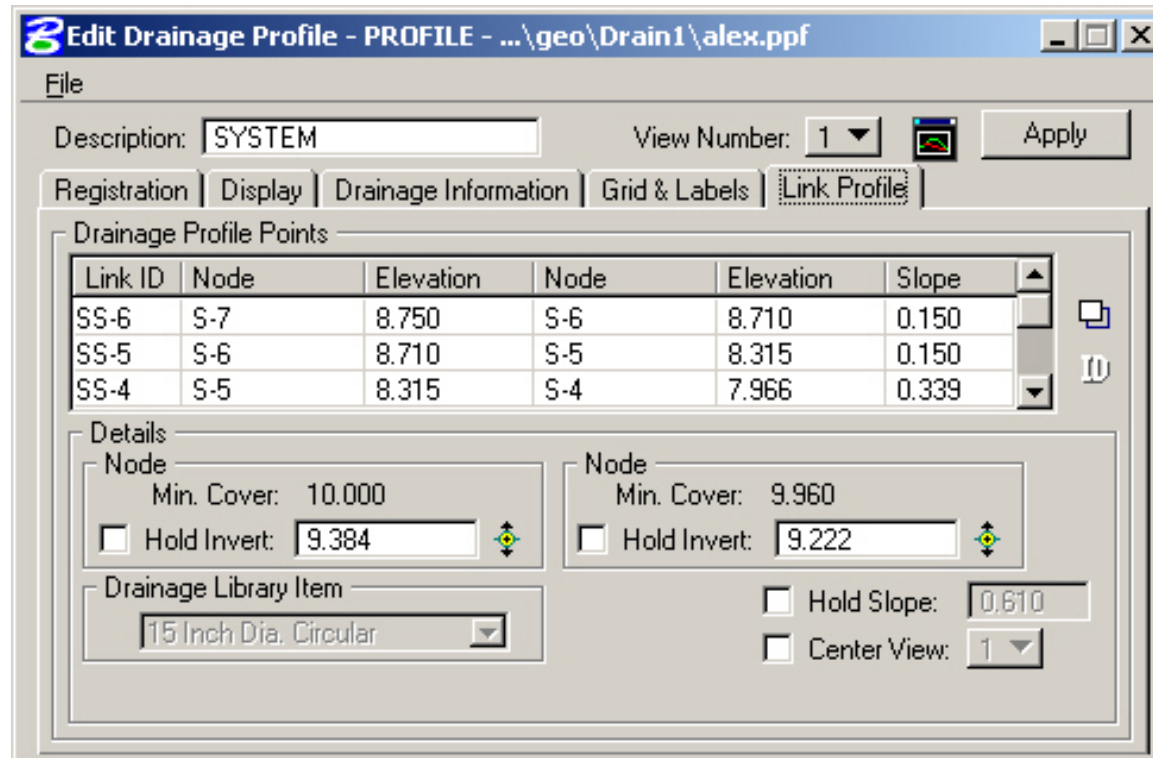
Designing with Geopak Drainage

More Profile Customization



Designing with Geopak Drainage

Profile View Design



File

Description: View Number:

Registration | Display | Drainage Information | Grid & Labels | **Link Profile**

Drainage Profile Points

Link ID	Node	Elevation	Node	Elevation	Slope
SS-6	S-7	8.750	S-6	8.710	0.150
SS-5	S-6	8.710	S-5	8.315	0.150
SS-4	S-5	8.315	S-4	7.966	0.339

Details

Node

Min. Cover: 10.000

☐ Hold Invert:

Drainage Library Item

Node

Min. Cover: 9.960

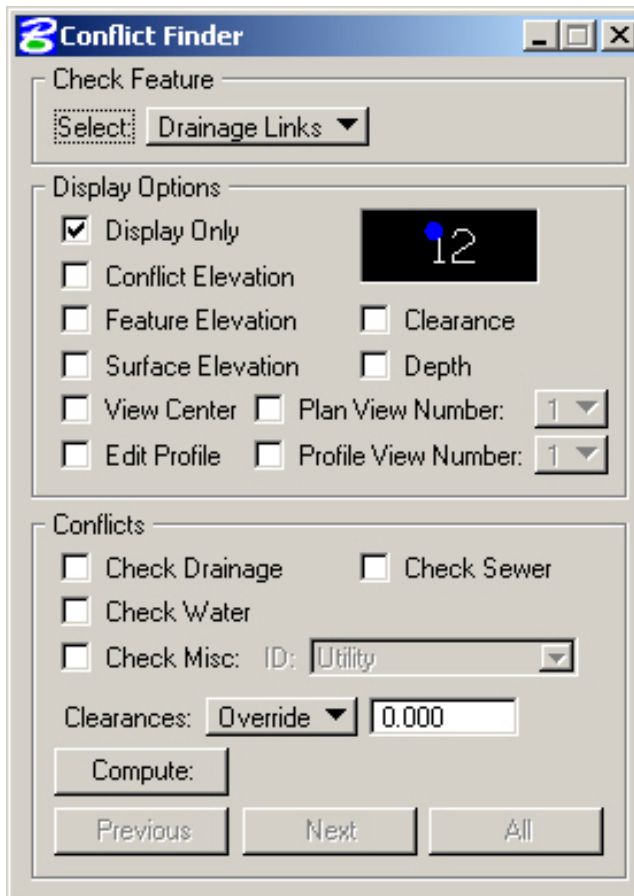
☐ Hold Invert:

☐ Hold Slope:

☐ Center View:

Designing with Geopak Drainage

Conflict Finder



The Conflict Finder dialog box is a software interface for checking and displaying conflicts. It is divided into three main sections: Check Feature, Display Options, and Conflicts.

Check Feature

- Select:

Display Options

- ☒ Display Only
- ☐ Conflict Elevation
- ☐ Feature Elevation
- ☐ Surface Elevation
- ☐ View Center
- ☐ Edit Profile
- ☐ Clearance
- ☐ Depth
- Plan View Number:
- Profile View Number:

Conflicts

- ☐ Check Drainage
- ☐ Check Sewer
- ☐ Check Water
- ☐ Check Misc: ID:
- Clearances:

Buttons

- Compute:
- Previous
- Next
- All